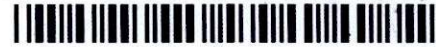




Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D2580-1
Job Sheet 213866



Part No: D2580-1

Job Qty: 6 pcs

Part Name: 205 Bent Tube



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 10/8/20

Job Tracking No:

Due Date: 10/23/20

Created By: Jennifer Renwick

Type: Stock

Description: SIOP

Note: DWG D2580 REV h SHEETS 1,2,3,8 IPP B 01.11.08 Revised Step 9, 10, 12, and 13 SM IPP Rev:C 10.12.01
as per DEO D1 DD ver:ec

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Skidtubes - 1	6 pcs	10/22/20		0.00	6.00	Skidtubes - 1		
							Skidtubes - 2		
							Skidtubes - 3		ML 20-10-27
							Skidtubes - 4		
							Skidtubes - 5		
							Skidtubes - 6		
							Skidtubes - 7		
101	QC 5	6 pcs	10/22/20		0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
110	Handfinish - 1-1 Chemical-B4B	6 pcs	10/22/20		0.00	2.25	Handfinish - 1 - 1 - B4B		
							Handfinish - 1 - 2 - B4B		
							Handfinish - 1 - 3 - B4B		



Container No: S308856



Part: D2580 - 1

Job No: 213866

Serial No/Batch: S308856

Revision: H

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 10/27/20

Plex 10/8/20 10:13 AM Dart.Renwick.Jennife

20.10.29

				Handfinish - 1 - 4 - B4B	
				Handfinish - 1 - 5 - B4B	
				Handfinish - 1 - 6 - B4B	
				Handfinish - 1 - 7 - B4B	
				Handfinish - 1 - 8 - B4B	
				Handfinish - 1 - 9 - B4B	
				Handfinish - 1 - 10 - B4B	
				Handfinish - 1 - 11 - B4B	
				Handfinish - 1 - 12 - B4B	
				Handfinish - 1 - 13 - B4B	
				Handfinish - 1 - 14 - B4B	
				Handfinish - 1 - 15 - B4B	
				Handfinish - 1 - 16 - B4B	
				Handfinish - 1 - 17 - B4B	
				Handfinish - 1 - 18 - B4B	
				Handfinish - 1 - 19 - B4B	
				Handfinish - 1 - 20 - B4B	
				Handfinish - 1 - 21 - B4B	
				Handfinish - 1 - 22 - B4B	
120 QC 7	6 pcs	10/22/20	0.00 0.00	QC 7 - 10	
				QC 7 - 13	
				QC 7 - 14	
				QC 7 - 15	
				QC 7 - 17	
				QC 7 - 18	
				QC 7 - 19	
				QC 7 - 2	
				QC 7 - 28	
				QC 7 - 3	
				QC 7 - 30	
				QC 7 - 34	
				QC 7 - 36	
				QC 7 - 37	
				QC 7 - 41	
				QC 7 - 47	
				QC 7 - 48	
				QC 7 - 51	
				QC 7 - 58	
				QC 7 - 59	
				QC 7 - 60	
				QC 7 - 9	
				QC 7 - 68	
				QC 7 - 50	
				QC 7 - 67	
				QC 7 - 40	
				QC 7 - 24	
				QC 7 - 43	
				QC 7 - 61	

M6h 20-10-29

					QC 7 - 81	
					QC 7 - 76	
					QC 7 - 79	
					QC 7 - 83	
					QC 7 - 82	
					QC 7 - 87	
125 Skidtubes - 2 - B4B	6 pcs	10/23/20	0.00	2.48	Skidtubes - 1 - B4B	
					Skidtubes - 2 - B4B	
					Skidtubes - 3 - B4B	
					Skidtubes - 4 - B4B	
					Skidtubes - 5 - B4B	DAS
					Skidtubes - 6 - B4B	03 20.11.3
					Skidtubes - 7 - B4B	9-89
130 QC 5	6 pcs	10/23/20	0.00	0.00	QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	
					QC 5 - 61	
					QC 5 - 81	
					QC 5 - 82	
						DAS
						82
						9-89
						NOV 05 2020
140 Packaging 3-1 - Stock - B4B	6 pcs	10/23/20	0.00	0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	DAS
					Packaging 3 - 26 - B4B	03
						9-89
						20.11.5

3AG
89
02-6

042
88
02-6
NOV 2 2020

3AG
89
02-6

				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
				Packaging 3 - 37 - B4B	
150 QC 21 - SA	6	10/23/20	0.00 0.00	QC 21 - SA - 21	DAS
	pcs			QC 21 - SA - 70	21
				QC 21 - SA - 9	9-02
				QC 21 - SA - 77	
				QC 21 - SA - 28	

NOV 05 2020

Part Op 100 - (Skidtube) 1- Inspect mat'l D2500-1-190 for damage. 2-Drill pilot holes using drill jig DT 8149 A-BC-D 3-Open holes Descriptions: to 0.508" as per Dwg D2580 4-Debur holes per QSI002 section 4.2.3 and blow out all chips from inside of tube 5- Test fit inspection saddles on FWD & AFT saddle holes using DT9916.

101 - (QC5- Inspect part completeness to step on W/O)

110 - (Chemical Conversion Coat per QSI005 4.1)

120 - (QC7-Inspect Chemical Conversion Coat)

125 - (Skidtube) 1- Bond web in place per QSI 015. A/R Sikaflex-291 batch: 52910810 Sikaflex expire date: 07/02/21 Start time and date: 2PM 10.11.3 bond for 12hrs and 7AM 10.11.4

130 - (QC5- Inspect part completeness to step on W/O)

140 - (Identify as per dwg & Stock Location:) LOCATION : LG002

150 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2500-1-190	Ext'n -I' Beam Tube 4"	6 pcs (1 ea)	100-Skidtubes - 1	5282211
D2596	Web, 205 Skidtube	6 pcs (1 ea)	125-Skidtubes - 2 - B4B	5308565

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Skidtubes - 1	D2500-1-190	6	50	0
125-Skidtubes - 2 - B4B	D2596	6	0	0

Part Specifications

Specifications could not be found.

Plex 10/8/20 10:13 AM Dart.Renwick.Jennifer

ITEM	QTY	QTY	QTY	QTY	PART NUMBER	DESCRIPTION
1	X	-041	-047	-049	D2690-041	SKIDTUBE ASSEMBLY
2					D2690-045	SKIDTUBE ASSEMBLY
3			X		D2690-047	SKIDTUBE ASSEMBLY
4				X	D2690-049	SKIDTUBE ASSEMBLY
20	1	1	1	1	D2600-1-100	EXTRUSION
21			16	16	D2670	BUSHING
22	1	1	1	1	D2676-3	STEP
23			4		D2678	SPACER
24	16	16	8	8	D2694-1	PLUG
25	16	16	8	8	D2694-3	O-RING
26	1	1	1	1	D2696	205 WEB
27	1	1	1	1	D2695	AFT CAP
28	1	1	1	1	D3594-5	WEARSHOE
29	1	1	1	1	D3594-9	WEARSHOE
30	1	1	1	1	D3594-11	WEARSHOE
31	1	1	1	1	D3594-13	WEARSHOE
32	20	20	24	24	D4202-1	SPACER
33			1	1	D4208-041	WEARPLATE ASSEMBLY
34			1	1	D4208-043	WEARPLATE ASSEMBLY
35				1	D5091-1	FWD WEARPLATE
36				1	D5091-3	AFT WEARPLATE
50	50	50			AL57-1032-130 or AKS7-1032-130 or AKS4-1032-130 or AELS-1032-130	INSERT
51	50	50			AK804A	BOLT
52	2	2	2	2	AK8-5A	BOLT
53			8	8	AK4-45A	BOLT
54	50	50			NA5114900332R	WASHER (AK800C10L)
55	2	2	2	2	NA5114900332J	WASHER (AK800D10L)
56			8	8	M821042-4	NUT (OR M821042L4)

GENERAL NOTES:

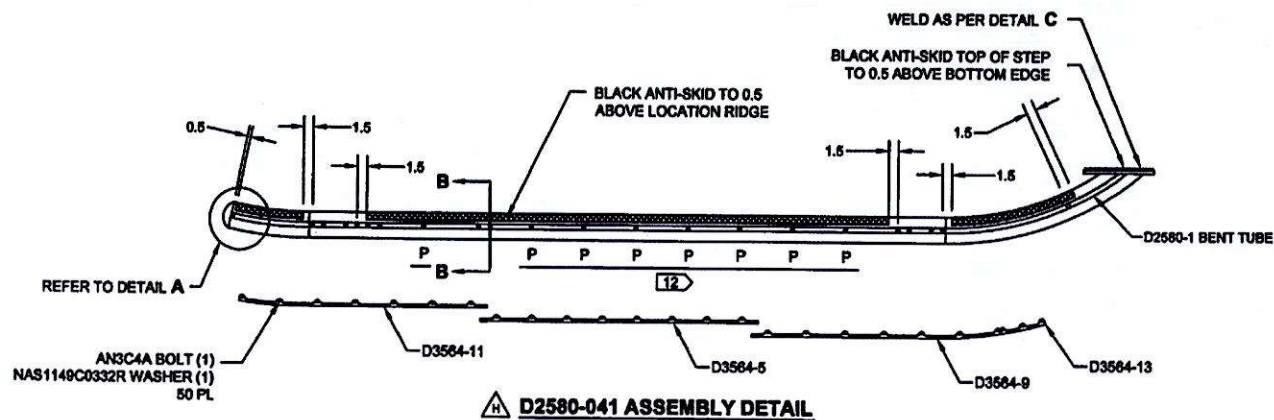
- 1) MATERIAL: N/A
- 2) FINISH: CHEMICAL CONVERSION PER DART QSI 005 4.1 PRIOR TO INSERTING D2696 WEB POWDER COAT (-041/-047/-049) GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3 POWDER COAT (-045) GREEN SANDTEX (REF 4.3.5.8) PER DART QSI 005 4.3 BLACK ANTI-SKID PAINT AS INDICATED PER DART QSI 005 4.4.
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED.
- 5) BREAK SHARP EDGES: 0.003 TO 0.010 MAX.
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: D2690-041 = 33.7 lbs
D2690-045 = 45.1 lbs
D2690-047 = 32.0 lbs
D2690-049 = 32.0 lbs
- 8) WELDING PER DART QSI 004.
- 9) INSERT D2696 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 10) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 11) USE DART DRILL TEMPLATE DTR217 & DTR637 ONLY FOR D2690-041/-045 TO LOCATE AND DRILL 20/297 HOLES FOR WEARSHOE INSERTS. INSTALL AL57-1032-130 PER SECTIONS B-B AND F-F (80 PLACES) AFTER FINISH. INSTALL AK804A BOLTS AND NA5114900332R WASHERS WITH SIKAFLEX-241/-291.
- 12) INSERT D2694-1 PLUG CW D2694-3 O-RING IN HOLES MARKED "P" (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES FOR D2690-041/-045 AND 8 PLACES FOR D2690-047/-049)
- 13) IT IS ACCEPTABLE TO GRIND A RELIEF IN THE D2695 AFT CAP TO PREVENT INTERFERENCE WITH THE SPACER AT THIS LOCATION

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UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 213866

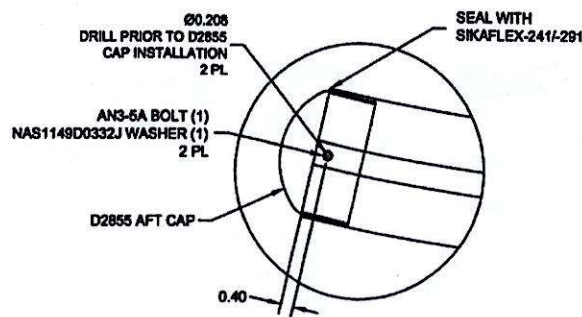
REV.	DESCRIPTION	BY	DATE
H	SHEET: PL DELETE D3586-1/-4/-13 GASKETS, WEIGHTS UPDATED ACCORDINGLY. SHEETS 2 & 4 PICTORIAL UPDATE FOR REMOVAL OF GASKETS	SAD	17.06.09
G	ADDED -049, -047 WEIGHT UPDATED PER DSI 8996	AJS	14.04.09
F	INCORPORATE DEO D2580-E-1 PER PART12-218	DC	13.08.20
E	ADD D2690-047 (ZN C4-7) AND D2690-7 (ZN BS-9); INCLUDED DEO D2690-O-1; REFORMATTED DRAWING TO CURRENT STANDARDS; DTR217 & DTR637 WAS TR2677-205 (ZN C4-1)	RF	11.06.21
D	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183	PH	07.04.06
C	REDRAWN, INCLUDED DEO 9004/ 9097	CP	06.08.26
B	AS MANUFACTURED	DS	06.12.02
A	NEW ISSUE	DS	06.08.16
DESIGN	DS		
DRAWN	SAD		
CHECKED	DS		
MFG. APPR.	D2580		
APPROVED	TITLE		
DE APPR.	205 SKIDTUBE ASSEMBLY		
DATE	17.06.09		

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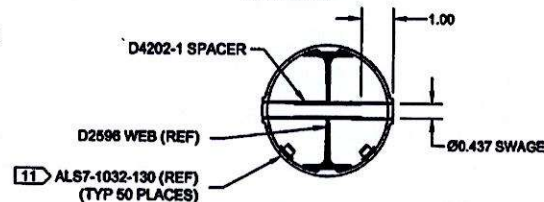
DART AEROSPACE LTD HAMPSHIRE, ONTARIO, CANADA	
DRAWING NO.	D2580
SHEET 1 OF 9	REV. H
TITLE	205 SKIDTUBE ASSEMBLY
SCALE	NTS
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DETAIL A
SCALE 5X

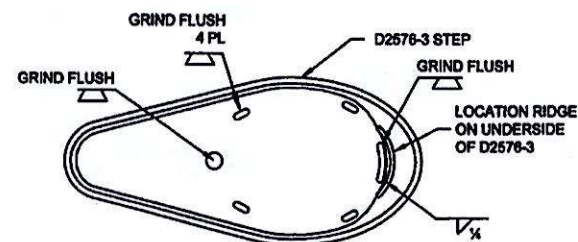


SECTION B-B
SCALE 5X



AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. INSERT D4202-1 SPACER (20 PLACES)
2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
3. TRIM / GRIND FLUSH PER QSI 002

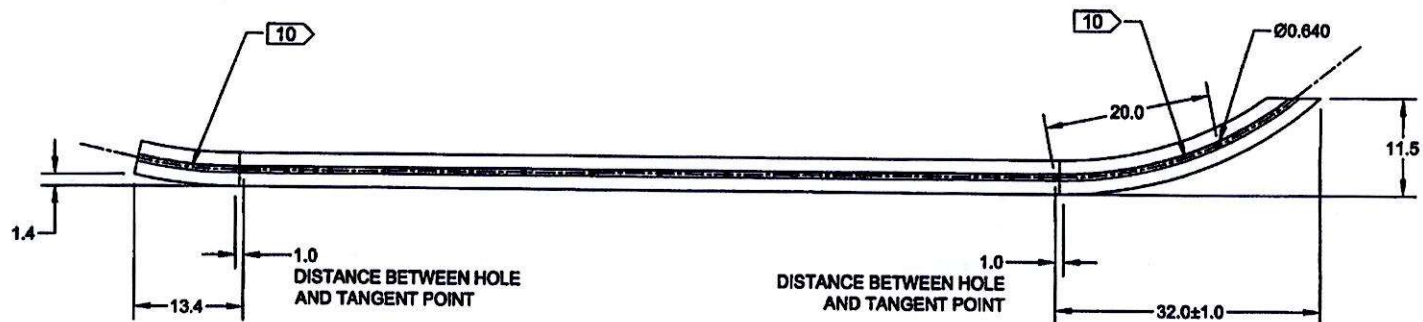
DETAIL C
SCALE 5X



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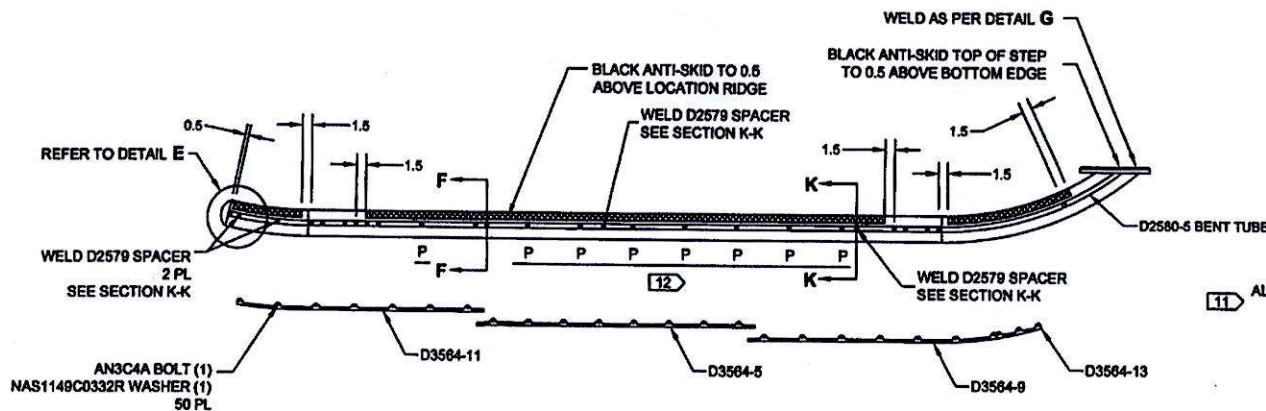
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DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
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MFG. APPR.	<i>[Signature]</i>	D2580	SHEET 2 OF 9
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	205 SKIDTUBE ASSEMBLY	NTS
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D2580-1 BENT TUBE
(MAKE FROM D2580-101 TUBE)

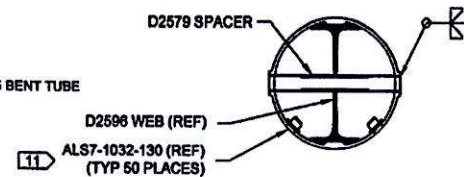
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MFG. APPR.	<i>[Signature]</i>	D2580	SHEET 3 OF 6
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	205 SKIDTUBE ASSEMBLY	NTS
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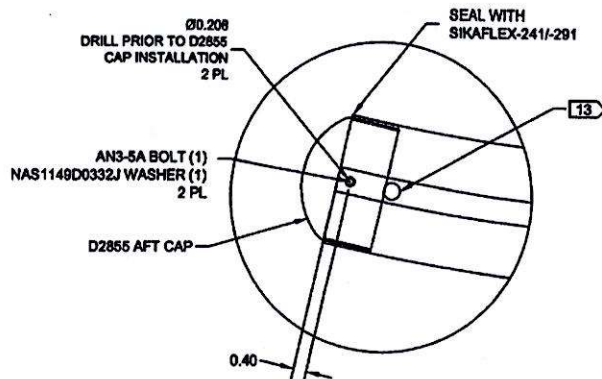
D2580-045 ASSEMBLY DETAIL

**SECTION K-K
SCALE 5X**

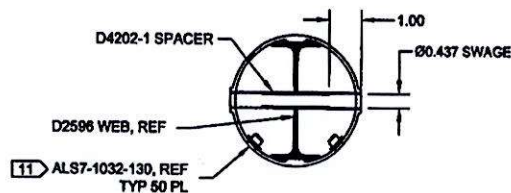


AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. CHAMFER HOLE 0.050 X 45°
2. INSERT D2579 SPACER (4 PLACES)
3. WELD INTO PLACE AND GRIND FLUSH
4. DO NOT C'BORE

**DETAIL E
SCALE 5X**

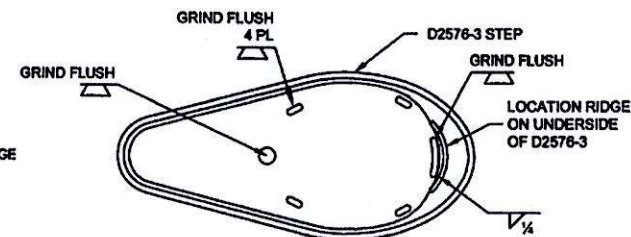


**SECTION F-F
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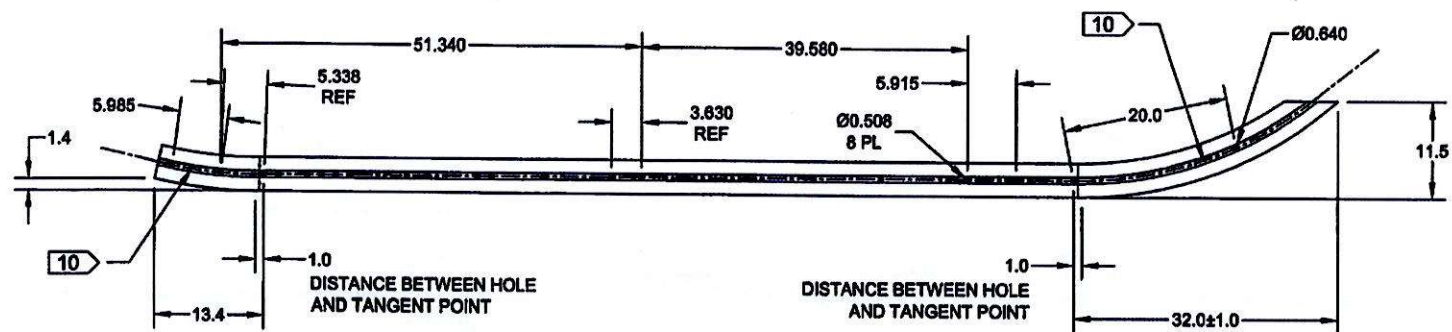
AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. INSERT D4202-1 SPACER (20 PLACES)
2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
3. TRIM/GRIND FLUSH PER QSI 002

**DETAIL G
SCALE 5X**



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MFG. APPR.	<i>[Signature]</i>	D2580	SHEET 4 OF 9
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	205 SKIDTUBE ASSEMBLY	NTS
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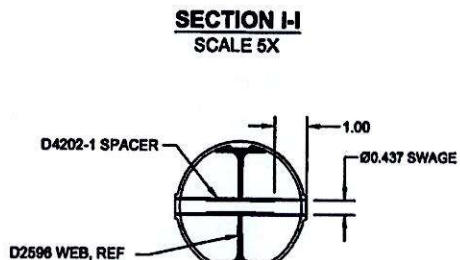
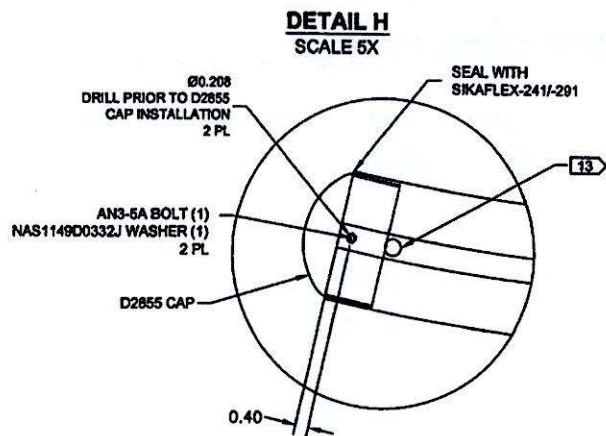
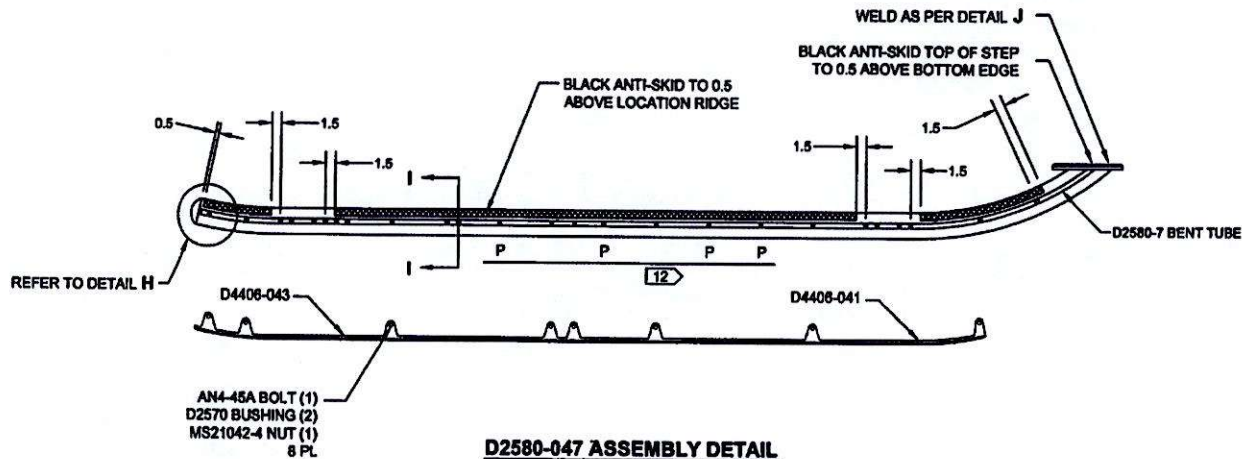


D2580-5 BENT TUBE
(MAKE FROM D2580-101 TUBE)

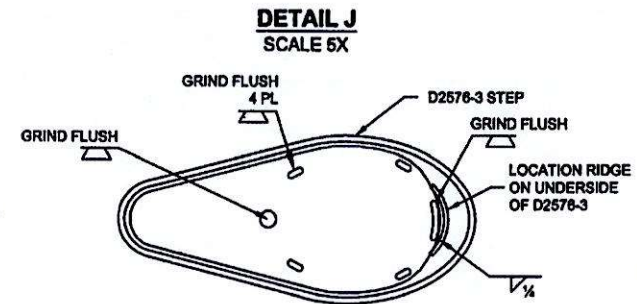
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MFG. APPR.	<i>[Signature]</i>	D2580	SHEET 5 OF 9
APPROVED	<i>[Signature]</i>	TITLE	SCALE
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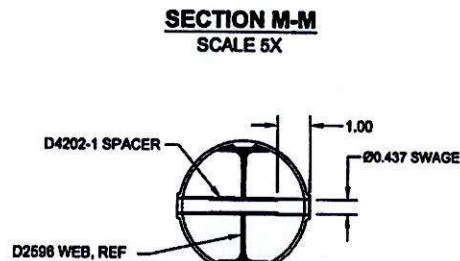
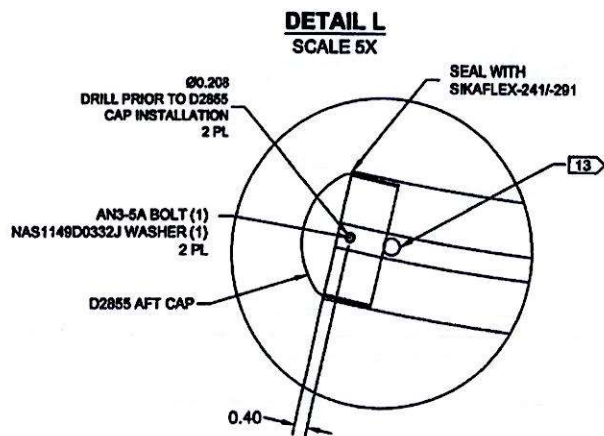
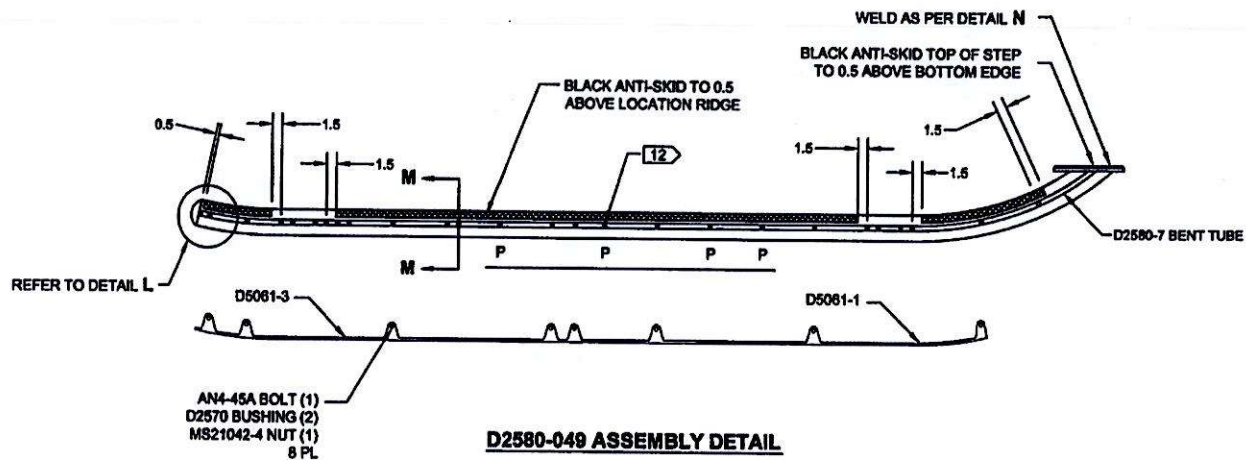


AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. INSERT D4202-1 SPACER (24 PLACES)
2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
3. TRIM/GRIND FLUSH PER QSI 002



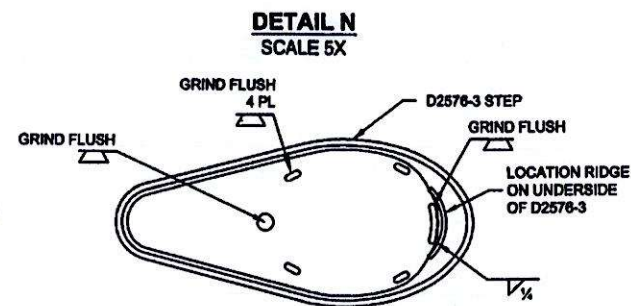
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MFG. APPR.	<i>[Signature]</i>	D2580	SHEET 8 OF 9
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	205 SKIDTUBE ASSEMBLY	NTS
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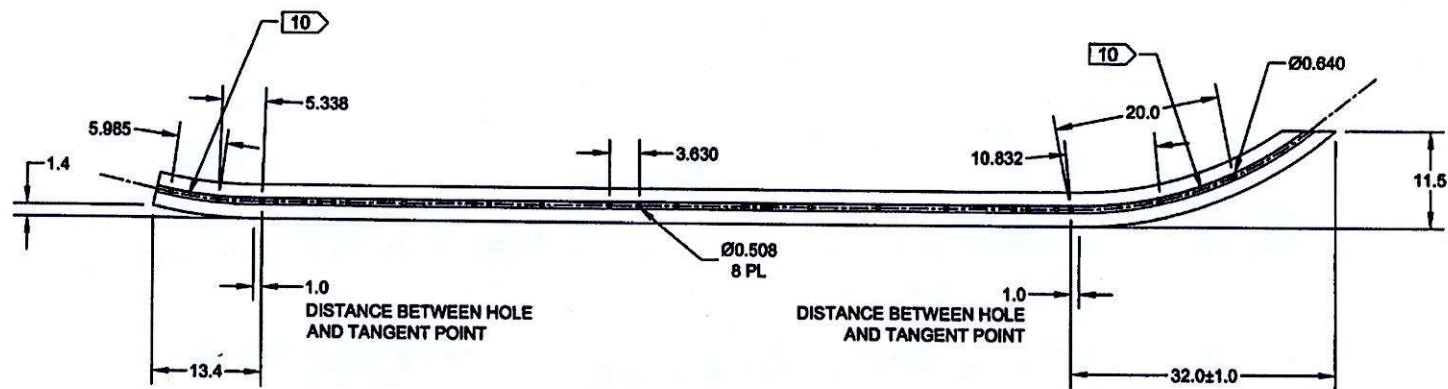
AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:

1. INSERT D4202-1 SPACER (24 PLACES)
2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
3. TRIM/GRIND FLUSH PER QSI 002



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2017 JUL 05

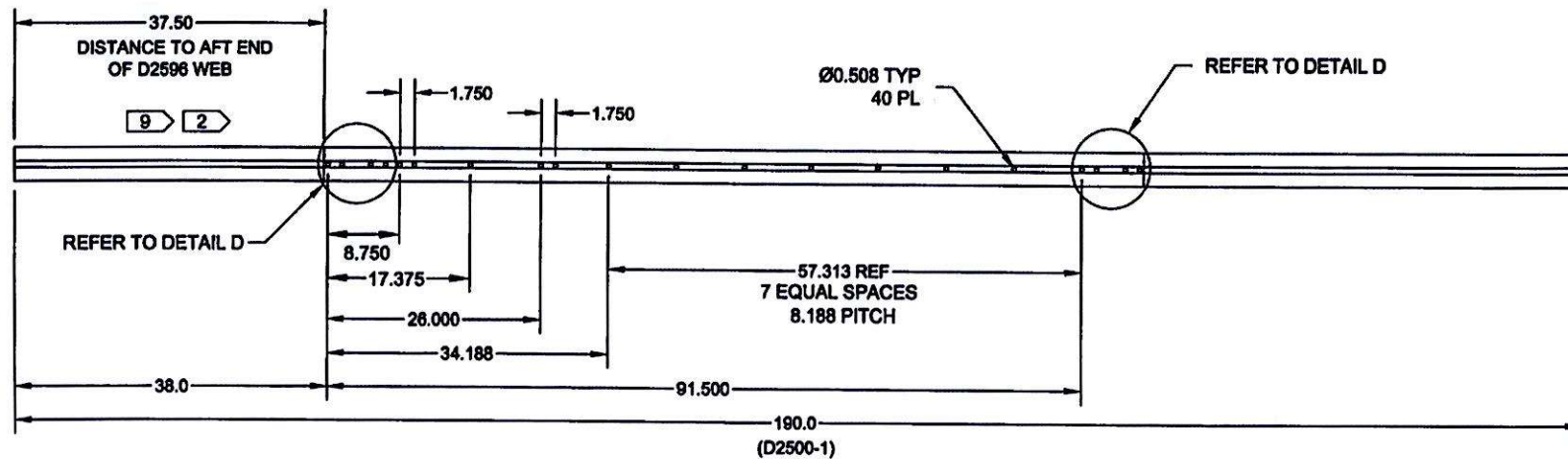
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. H
MFG. APPR.	<i>[Signature]</i>	D2580	SHEET 7 OF 9
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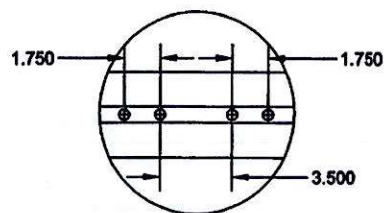
D2580-7 BENT TUBE
(MAKE FROM D2580-101 TUBE)

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2017 JUL 05 *q*

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DRAWN	SAD		
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MFG. APPR.	<i>[Signature]</i>	D2580	SHEET 8 OF 9
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	205 SKIDTUBE ASSEMBLY	NTS
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D2580-101 TUBE



DETAIL D
SCALE 5X

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2017 JUL 05

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MFG. APPR.	<i>[Signature]</i>	D2580	SHEET 9 OF 9
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	205 SKIDTUBE ASSEMBLY	NTS
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8 7 6 5 4 3 2 1

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					